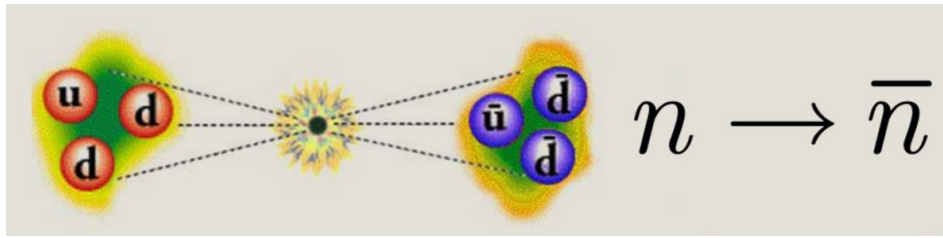


Theoretical Innovations for Future Experiments Regarding Baryon Number Violation, Part 1



Contribution ID: 41

Type: **Oral Presentation**

Measurements of Neutron Coupling to a Mirror Sector Using Spin Precession

Thursday, August 6, 2020 11:30 AM (30 minutes)

Couplings between neutrons and a mirror sector can be formulated in terms of observable effects for precession-measurements (as has been pointed out by Berezhiani), bringing to bear the tools and experimental resources already in play for the measurement of static electric dipole moments. limits for measurements with the coupling strength for neutrons to mirror neutrons. Some details of measurements in an EDM-like geometry can be used to place limits on mirror couplings and provide information on the orientation and strength of a mirror magnetic field, should it exist in the mirror sector.

Contribution Title

Measurements of Neutron Couplings to a Mirror Sector Using Spin Precession

Primary author: Prof. YOUNG, Albert (North Carolina State University/Triangle Universities Nuclear Laboratory)

Presenter: Prof. YOUNG, Albert (North Carolina State University/Triangle Universities Nuclear Laboratory)